

PROJECT DESCRIPTION GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 5 (Point Lookout Road) AT MD 471 (INDIAN BRIDGE ROAD)/FLAT IRON ROAD IN ST. MARY'S COUNTY. THE MODIFICATION INVOLVES CHANGING THE NORTHBOUND AND SOUTHBOUND MD 5 LEFT TURN PHASING FROM PERMISSIVE PHASING TO AN EXCLUSIVE/PERMISSIVE PHASING. NEW OVERHEAD VIDEO DETECTION CAMERAS SHALL BE INSTALLED FOR ACTUATION OF NORTHBOUND AND SOUTHBOUND MD 5 LEFT TURN MOVEMENTS. THE EXISTING SIDE STREET MD 471/FLAT IRON ROAD PRESENCE DETECTION LOOPS SHALL BE ABANDONED AND NEW OVERHEAD VIDEO DETECTION CAMERAS SHALL BE INSTALLED FOR ACTUATION OF THESE MOVEMENTS.

INTERSECTION OPERATION

AN EXISTING CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN AT THIS LOCATION. THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THE NORTHBOUND AND SOUTHBOUND MD 5 APPROACHES SHALL OPERATE CONCURRENTLY WITH THE LEFT TURN MOVEMENTS OPERATING AS EXCLUSIVE/PERMISSIVE. THE SIDE STREET APPROACHES OF MD 471/FLAT IRON ROAD SHALL OPERATE CONCURRENTLY. THE CONTROLLER IS INTERCONNECTED WITH THE CONTROLLER AT THE INTERSECTION OF MD 5 AND MD 246. THE INTERSECTION ALSO OPERATES ON A PRE-EMPTION PHASE FOR WHEN A NORTHBOUND MD 5 EMERGENCY VEHICLE APPROACHES. THE PRE-EMPTION PHASE DISPLAYS RED FOR ALL APPROACHES EXCEPT FOR NEMA PHASE 2 & 6. NORTHBOUND MD 5 DISPLAYS GREEN.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019
MR. MARK COBLENTZ, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1031
MR. JOHN S. MAYS, DISTRICT UTILITIES ENGINEER
PHONE: (410) 841-1039
MR. CHUCK E. GEORGE, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF OF TRAFFIC OPERATIONS DIVISION 1332 TELEPHONE DROP
PHONE: (410) 781-7631

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9002	NEMA LOAD SWITCH	EA	1
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1

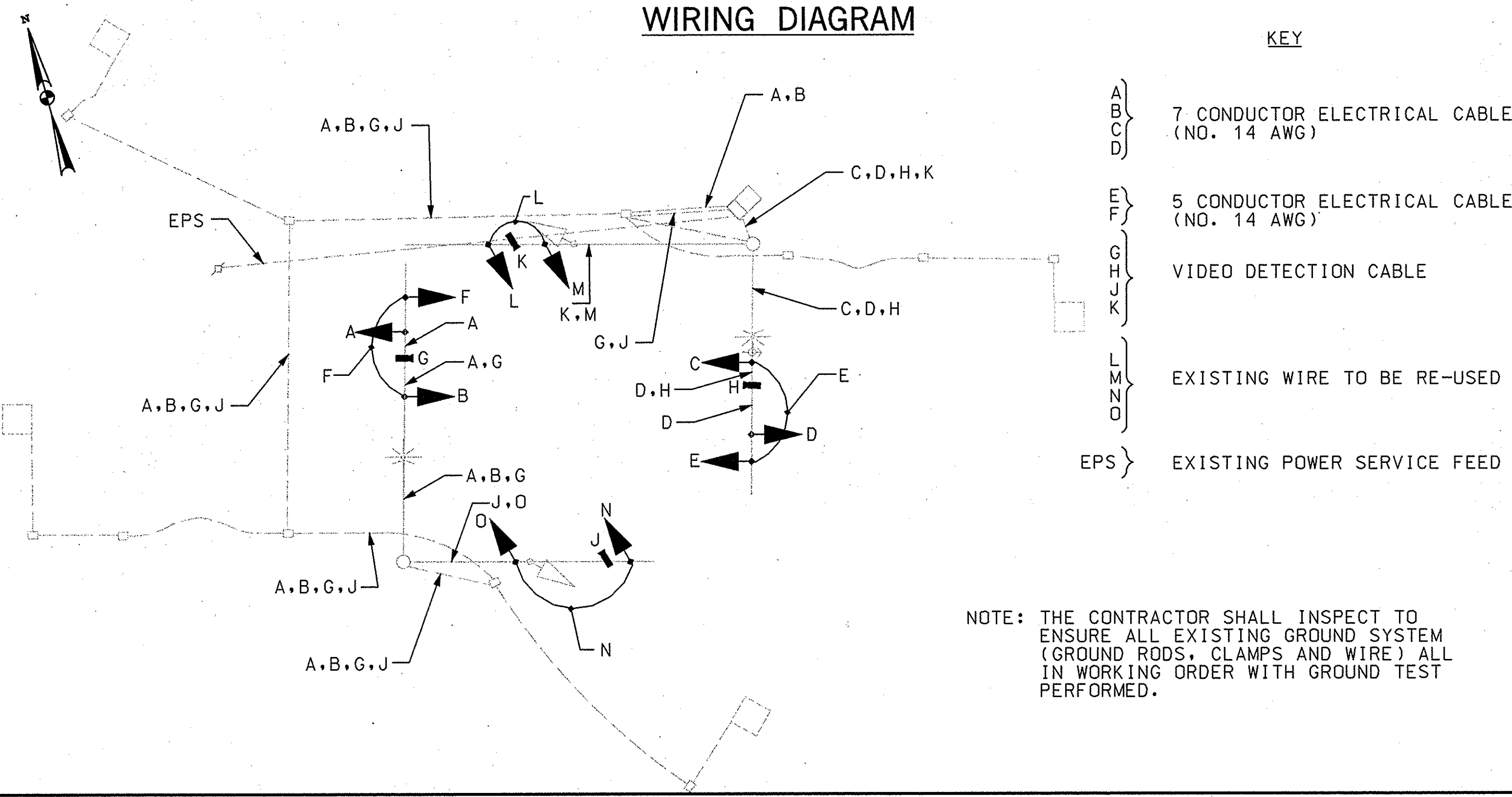
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
8002	12 INCH RED OR GREEN LED BLACK FACE SIGNAL HEAD SECTION	EA	22
8003	12 INCH YELLOW LED BLACK FACE SIGNAL HEAD SECTION	EA	12
8011	8 INCH LED SIGNAL RED, YELLOW OR GREEN HEAD SECTION	EA	6
8018	CONTROL CABLE, 100 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
8020	CONTROL CABLE, 400 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
8028	REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT	EA	1
8065	VIDEO DETECTION CAMERA	EA	4
8078	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	50
8079	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	745

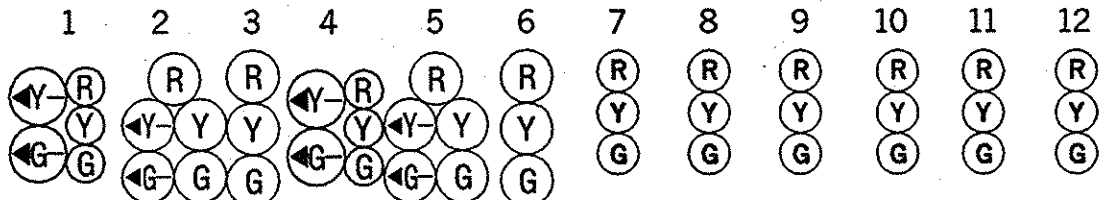
C. MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	SIGNAL HEAD SECTION	EA	12

WIRING DIAGRAM



PHASE CHART



PHASE 1 AND 5	←G←	←G←	R	←G←	←G←	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6													
PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE	←YG	←YG	Y	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	R	R	R
2 AND 5 CHANGE	R	R	R	←YG	←YG	Y	R	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R
PRE-EMPTION													
PRE-EMPTION PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R
PRE-EMPTION CLEARANCE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	R	R	R	R	R

TOD No: AT782-42
SHA NM: SN349A51/B51

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 5 (Point Lookout Road) AND MD 471 (INDIAN BRIDGE RD)/FLAT IRON ROAD
GREAT MILLS, MARYLAND

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE 05/2006 CONTRACT NO. AT7825185

DESIGNED BY S.SMITH COUNTY ST. MARY'S
DRAWN BY L.YEH LOGMILE 18000517.46
CHECKED BY S.RENZI TMS NO. H309A-GI
FAP NO. TOD NO.

DRAWING NO. TS3832 - 2 OF 2 SHEET NO. 2 OF 2

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PLOTTED: 04/26/2006
FILE: SFILES